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Model 1145P, 21mW Linear Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



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C\$5,019⁰⁰

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General

20	Warm-Up Time (minutes):
Lumentum	Manufacturer:
HeNe	Type of Laser:
IIIb	Laser Class - CDRH:

1145P	Model Number:
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Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad°C): After 15 min.: <0.3	
2.6	Weight (lbs):
25.00	Length of Laser Head (inches):
Centered to Outer Cylinder: ±0.01" Parallel to Outer Cylinder: ±1.0 mrad	Static Alignment:
Pointing Stability (mrad°C): From Cold Start, 25°: <0.2	
1.74	Diameter of Laser Head (inches):

Optical Properties

500:1	Polarization:
TEM ₀₀	Spatial Mode:
632.80	Wavelength (nm):
±3	Beam Diameter Tolerance (%):
±3	Beam Divergence Tolerance (%):
Mean Power over 8 hrs: ±2	Maximum Drift:
0.70	Beam Diameter (mm):
1.15	Beam Divergence (mrad):
Red	Color:
>95%	Mode Purity (TEM ₀₀):

Electrical

21	Output Power (mW):
30 Hz - 10 MHz 0.5%	RMS Noise:
257	Longitudinal Mode Spacing, Nominal (MHz):
21.0	Minimum Output Power, TEM ₀₀ (mW):

Hardware & Interface Connectivity

#11-391 (110/220V AC)	Power Supply:
Free Space	Output Type:

Environmental & Durability Factors

-40 to +70	Operating Temperature (°C):
0 to 100%, non-condensing	Operating Humidity:
-40 to +150	Storage Temperature (°C):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	REACH 241:

Product Details

110V or 220V power supplies sold separately. These HeNe lasers comply with 21CFR1040 and IEC 825-1:1993.

- Power Options from 0.5 - 22.5mW
- Improved Stability
- Ideal for Interferometry and Metrology Applications
- Random or Linear Polarization Options

Lumentum High Performance Helium-Neon Lasers feature a patented close-cathode design that provides improved thermal and power stability. They also utilize a patented field concentrator design that enables fast turn-on. These Lumentum HeNe lasers also feature precisely aligned cylindrical housings, with cylindrical laser heads and electrical interconnect systems used to simplify system integration. Lumentum High Performance Helium-Neon Lasers' rugged design is ideal for even the most demanding applications. They are exemplary for use within interferometry and metrology applications.

Note: Please exercise caution when using a user-provided power supply to not exceed the electrical specifications of the laser as this may cause damage and void the warranty. These HeNe lasers comply with 21CFR1040 and IEC 825-1:1993. Lumentum was previously known as JDSU.

Technical Information

Beam Expander Mounting Configurations

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